	<u> </u>	
	Application No.	Applicant(s)
Nation of Allowskiller	10/628,989	MAN-HO, CHIANG
Notice of Allowability	Examiner	Art Unit
	Y. J. Han	2838
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>a case filed on 7/28/03.</u>		
2. The allowed claim(s) is/are <u>1-25</u> .		
3. The drawings filed on 28 July 2003 are accepted by the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority uner a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Dat 	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9/26/03	7. Examiner's Amendr	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit	_	ent of Reasons for Allowance
of Biological Material	9. 🗍 Other	JESSICA HAN
		PRIMARY EXAMINER

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-25 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Claims 1, 19, 22, 24, and 25 recite, inter alia, a reference circuit for generating a PWM reference signal by causing the trailing edge of said PWM signal to decrease in voltage at a predetermined rate such that said PWM reference signal drops below and remains below said lower voltage if the next pulse of said PWM signal has not been generated; a comparator circuit for comparing said PWM reference signal to said clock signal and for generating an output signal as a function thereof such that said output signal is on when said PWM reference signal is below said lower voltage; and a driver circuit responsive to said output signal and said PWM signal so as to turn off said free-wheeling synchronous rectifier when said output signal is on and so as to enable said PWM signal to control said free-wheeling synchronous rectifier when said output signal is off.

Claim 23 recites, inter alia, generating a PWM reference signal by causing the trailing edge of said PWM signal to decrease in voltage at a predetermined rate such that said PWM reference signal drops below and remains below said lower voltage if the next pulse of said PWM signal has not been generated; generating an output signal as a function of said PWM reference signal and said clock signal such that said output signal is on when said PWM reference signal is below said lower voltage; turning off said free-wheeling synchronous rectifier when said output signal is on; and enabling said PWM signal to control said free-wheeling synchronous rectifier when said output signal is off.

Application/Control Number: 10/628,989

Art Unit: 2838

The art of record does not disclose the above limitations, nor would it be obvious to modify the art of record so as to include either of the above limitations.

Page 3

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y. J. Han whose telephone number is 571-272-2078. The examiner can normally be reached on Mon-Fri 5:30am-2:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J. Han

JESSICA HAN PRIMARY EXAMINER